TECHNICAL APPENDIX FORM (TA5031) FOR PRESSURE VESSELS PRESSURE VESSEL ENGINEERING NOTE PER CHAPTER 5031

Prepared by:	
Preparation date:	

1. <u>Description and Identification</u>
Fill in the label information below:

THIS VESSEL CONFORMS TO FERMILAB ESH&Q MANUAL CHAPTER 5031	
Vessel Title	
Vessel Number	←Obtain from Teamcenter
Vessel Drawing No.	
Maximum Allowable Working Pressure (MAWP)	
Internal Pressure	
External Pressure	
Working Temperature Range °F °F	
Contents	
Designer / Manufacturer	
Test Pressure (if tested at Fermilab) Acceptance Date	← Document per Chapter 5034 of the Fermilab ESH&Q Manual
PSIG, Hydraulic Pneumatic	
Accepted as conforming to standard by	
	←Print D/S/C Head or Designee Name and lab ID#
Of Division / Section / Center Date:	
NOTE: Any subsequent changes in contents, pressures, temperatures, valving, etc., which affect the safety of this vessel shall require another review.	
Reviewed by:	-
(Print Name and lab ID #)	
Signature:	
(If Teamcenter electronic Workflow approval is used instead of a physical signature note this in the	
D/S/C Head or Designee:	-
(Print Name and lab ID #)	

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WARNING: This manual is subject to change. The current version is maintained on the ESH & Q Section website. 07/2015

Signature:	Date:
(If Teamcenter electronic Workflow approval is used instead of a physical signature note this in	the signature blank)
Director's signature (or designee) if the vessel is doesn't conform to the requirements of the chapter.	for manned areas but
ESH&Q Director or Designee:	
(Print Name and lab ID #)	
Signature:	Date:
(If Teamcenter electronic Workflow approval is used instead of a physical signature note this in	the signature blank)
Director or Designee:	
(Print Name and lab ID #)	
Signature:	Date:
(If Teamcenter electronic Workflow approval is used instead of a physical signature note this in the content of	the signature blank)
Amendments should include a new TA5031 form with the	e signatures required to

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approve the amendment.

Lab Property Number(s):	
Lab Location Code:	(obtain from safety officer)
Purpose of Vessel(s):	
Vessel Capacity/Size:	
Normal Operating Pressure (OP)	
MAWP-OP = PSI	
List the numbers of all pertinent	drawings and the location of the originals.
Drawing #	Location of Original
2. Design Verification	
Is this vessel designed and	built to meet the ASME BPVC or "Experiment
Vessel" requirements?	
Yes No	
If "No" state the standard th	at was used
	culations of that standard have been made
	of that standard have been satisfied.
Skip to part 3 "system vent	ing verification."
Dana the	ahama
complete section 2A; if "No	stamp? YesNo If "Yes",
complete section 2A, ii No	, complete section 2B.
A. Staple photo of U sta	mn nlate helow
Copy "U" label details to t	
	Copy data here:
	-

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Provide ASME design calculations in an appendix. On the sketch below, circle all applicable sections of the ASME code per Section VIII, Division I. (Only for non-coded vessels)

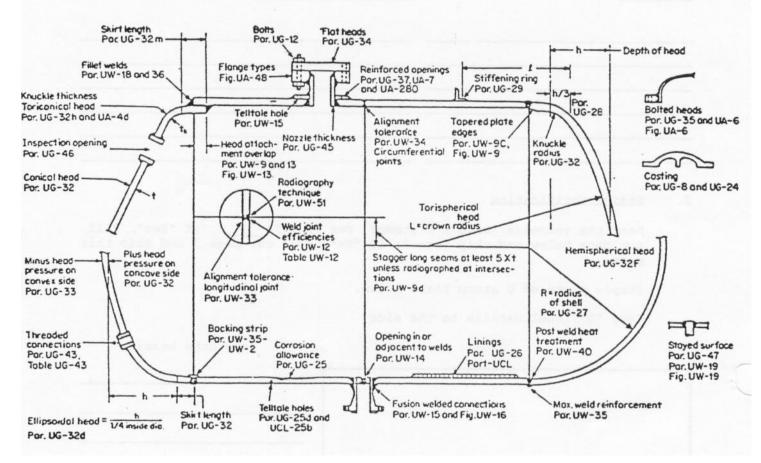


Figure 1. ASME Code: Applicable Sections

2В.

Summary of ASME Code

		CALCULATION RESULT
		(Required thickness or stress
	Reference ASME	level vs. actual thickness
Item	Code Section	calculated stress level)
		vs

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3.	System Venting V	erification Pr	covide	the vent	system schemat	tic.
	Does the venting system follow the Code UG-125 through UG-137? Yes No					
	Does the venting system also follow the Compressed Gas Association Standards S-1.1 and S-1.3? Yes No				ciation	
	A "no" response to both of the two proceeding questions requires a justification and statement regarding what standards were applied to verify system venting is adequate.					
	List of reliefs	and settings:				
	Manufacturer	Model #	Set	Pressure	Flow Rate	Size
4.	Operating Proced	<u>lure</u>				
	Is an operating procedure necessary for the safe operation of this vessel? Yes No (If "Yes", it must be appended)					
5.	Welding Informat	ion				
	qualificat	append a copy of ion (Procedure the Welding Pr	of the Quali	welding fication	shop statement Record, PQR) wh	of welder nich
6.	Existing and Unmanned Area Vessels					
	Is this vessel or any part thereof in the above categories? Yes No					
	If "Yes", follow Existing and Unm	-		or an Exte	nded Engineerir	ng Note for
7.	Exceptional Vess	els				
	Is this vessel o		reof i	n the abo	ve category?	
	If "Yes", follow the requirements for an Extended Engineering Note for Exceptional Vessels.				ng Note for	

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Figure 2. Sample of sticker to be completed and placed on vessel.